LITHONIA LIGHTING®

FEATURES & SPECIFICATIONS

INTENDED USE — The RTL combines digital LED lighting and controls technologies with patented high-performance optical design to offer the most advanced luminaire for general-ambient lighting applications. High-efficacy light engine delivers long life and excellent color, ensuring a superior quality lighting installation that is highly efficient and sustainable.

CONSTRUCTION — Rugged, one-piece cold-rolled steel reflector assembly with embossed facets. Coated polyester powder-paint after fabrication.

Rigid structure with ballast box and end plates. End plates include integral T-bar clips.

Impact-modified acrylic prismatic refractor

Luminaires may be mounted end-to-end and continuously wired.

OPTICS — Volumetric illumination is delivered by creating an optimal mix of light to walls, partitions, vertical and horizontal work surfaces — rendering the interior space, objects and occupants in a more balanced, complementary luminous environment.

Light distribution is carefully controlled at high angles, providing just enough luminous flux to create the volumetric effect.

Linear faceted reflector cavity softens and distributes light into the space while minimizing luminous contrast between the fixture and ceiling.

Sloped end plates provide a smooth, luminous transition between fixture and ceiling while enhancing the perception of fixture depth.

ELECTRICAL — Long-life LEDs, coupled with high-efficiency drivers, provide superior quantity and quality of illumination for extended service life. RTL is rated to deliver L90 performance for 60,000 hours.

Optional integrated nLight® controls make each luminaire addressable - allowing it to digitally communicate with other nLight enabled controls such as dimmers, switches, occupancy sensors and photocontrols. Simply connect all the nLight enabled control devices and the RTL luminaires using standard CAT-5 cabling. Unique plug-and-play convenience as devices and luminaires automatically discover each other and self-commission.

Lumen Management: Unique lumen management system (option N80) provides onboard intelligence that actively manages the LED light source so that constant lumen output is maintained over the system life, preventing the energy waste created by the traditional practice of over-lighting.

Step-level dimming option allows system to be switched to 50% power for compliance with common energy codes while maintaining fixture appearance.

eldoLED driver options deliver choice of dimming range, and choice of control, while assuring flicker-free, low current inrush, 89% efficiency and low EMI.

Driver disconnect provided where required to comply with US and Canadian codes.

INSTALLATION — Drivers and internal components accessed via plenum. Driver tray may be removed from fixture during service. Suitable for damp location.

Maintenance: LED boards include plug-in connectors for easy replacement or servicing.

LISTINGS — CSA Certified to meet U.S. and Canadian standards. IC rated.

Tested to LM80 standards. IC rated. DesignLights Consortium® (DLC) Premium qualified product. Not all versions of this product may be DLC Premium qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

Protected by one or more of US Patent Nos. 7,229,192; D541,467; D541,468; D544,633; D544,634; D544,992. D544,933 and additional patents pending.

WARRANTY — 5-year limited warranty. Complete warranty terms located at www.acuitybrands.com/CustomerResources/Terms__and__conditions.aspx

Note: Actual performance may differ as a result of end-user environment and application.
All values are design or typical values, measured under laboratory conditions at 25°C.
Specifications subject to change without notice.

RT LED

Volumetric Lighting

2RTL

2' X 4'
LED

C.E.C. TITLE 20 COMPLIANT · CSA+ CAPABLE · eldoLED · DLC QPL PREMIUM · nLight

INDUSTRY RECOGNITION/AWARDS

NGL '12
2012 RECOGNIZED PRODUCT

PROGRESS Report SELECTION
2011 SELECTION

pia11 AWARD WINNER
2011 BEST AMBIENT LED LUMINAIRE
2011 MOST INNOVATIVE OPTICAL CONTROL

TheLEDShow
2010 BEST INTERIOR LED PRODUCT

CSA+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is part of an A+ Certified solution for nLight® control networks when ordered with drivers marked by a shaded background*
- This luminaire is part of an A+ Certified solution for nLight control networks, providing advanced control functionality at the luminaire level, when selection includes driver and control options marked by a shaded background*

To learn more about A+, visit www.acuitybrands.com/aplus.

*See ordering tree for details

A+ Capable options indicated by this color background.

ORDERING INFORMATION

Lead times will vary depending on options selected. Consult with your sales representative.

Example: 2RTL4 48L EZ1 LP835 N80

2RTL4								
Series	**Air function**		**Lumens**	**Voltage**	**Driver[3]**		**Color temperature**	**Controls[5]**	**Option**

Series	Air function		Lumens		Voltage		Driver[3]		Color temperature		Controls[5]		Option	
2RTL4 Recessed 2X4 LED	(blank) No air	CAS Center air slots (air removal)	30L 3000[1] 40L 4000[1] 48L 4800[1] 60L 6000[1] 72L 7200[1]		(blank)	MVOLT (120 - 277V) 347 347[2]	EZ1 EZB EDB EXB SLD EXA1 EXAB	eldoLED dims to 1% (0-10 volt dimming) eldoLED dims to dark (0-10 volt dimming) eldoLED DALI[3] eldoLED DMX/RDM[3] Step-level dimming[3] Dims to 1%, XPoint wireless enabled[3,4] Dims to dark, XPoint wireless enabled[3,4]	LP830 3000 K, 82 CRI LP835 3500 K, 82 CRI LP840 4000 K, 82 CRI LP850 5000 K, 82 CRI	(blank) No controls N80 nLight with 80% lumen management N80EMG nLight with 80% lumen management for use with generator supply EM power[6] N100 nLight without lumen management N100EMG nLight without lumen management for use with generator supply EM power[6]		EL7L 700 nominal lumen battery pack (non-CEC compliant) EL14L 1400 nominal lumen battery pack (non-CEC compliant) E10WLCP EM Self-Diagnostic battery pack, 10W Constant Power, CEC compliant CP Chicago plenum	

Accessories: *Order as separate catalog number.*

DGA24	Drywall ceiling adaptor , unit installation

Notes

1. Approximate lumen output.
2. Not available with EL battery packs or SLD driver.
3. Not available with N80, N80EMG, N100, or N100EMG.
4. Gateway not included. Requires on-site commissioning. Visit www.lightingcontrols.com/XPointWireless for more information.
5. nLight access limitations with EZB.
6. nLight EMG option requires a connection to existing nLight network. Power is provided from a separate N80 or N100 enabled fixture.

Performance Data

Lumen Package	Lumens	Input Watts	LPW
30L LP830	3010	30.45	99
30L LP835	3100	30.45	102
30L LP840	3191	30.45	105
30L LP850	3304	30.45	109
40L LP830	3913	38.52	112
40L LP835	4118	38.52	118
40L LP840	4305	38.52	124
40L LP850	4416	38.36	115
48L LP830	4545	46.58	97
48L LP835	4786	46.58	103
48L LP840	5027	46.58	108
48L LP850	5147	46.52	111
60L LP830	5178	54.8	94
60L LP835	5418	54.8	99
60L LP840	5689	54.8	104
60L LP850	5870	54.8	107
72L LP830	6653	71.08	93
72L LP835	6984	71.08	98
72L LP840	7315	71.08	103
72L LP850	7580	71.08	107

How to Calculate Delivered Lumens in Emergency Mode

Use the formula below to determine the delivered lumens in emergency mode

Delivered Lumens = 1.25 x P x LPW

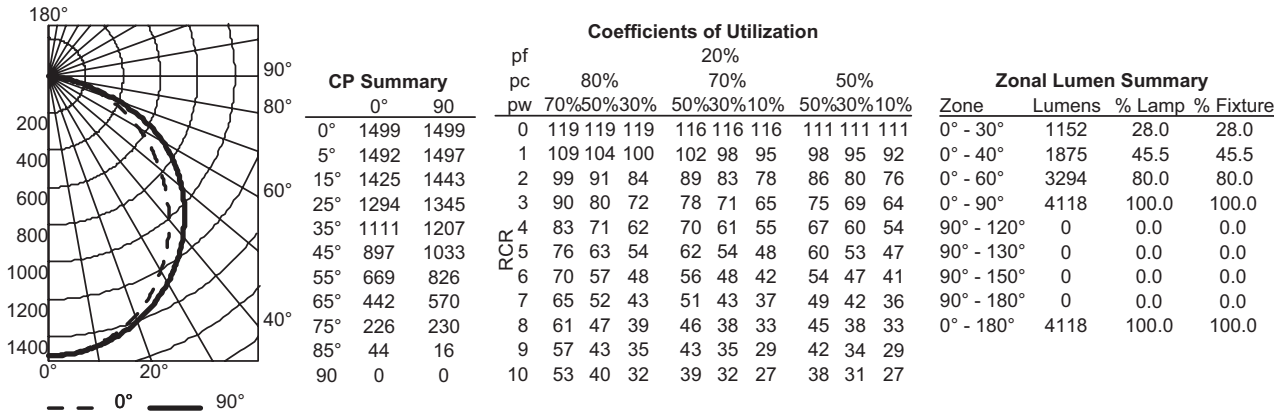P = Ouput power of emergency driver. P = 10W for E10WLCP option.

LPW = Lumen per watt rating of the luminaire. This information is available on the ABL luminaire spec sheet.

LPW = Lumen per watt rating of the luminaire. LPW information available in Performance Data section.
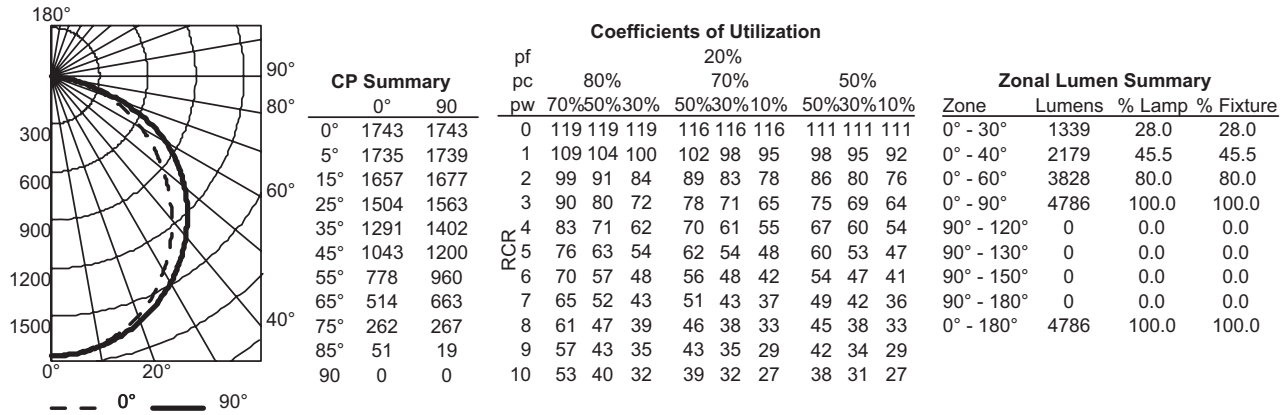
PHOTOMETRICS

2RTL4 40L LP835, 4,118 delivered lumens, test no. LTL25588P4, tested in accordance to IESNA LM-79 .

CP Summary		
	0°	90
0°	1499	1499
5°	1492	1497
15°	1425	1443
25°	1294	1345
35°	1111	1207
45°	897	1033
55°	669	826
65°	442	570
75°	226	230
85°	44	16
90	0	0

Coefficients of Utilization

pf									
pc	80%			70%			50%		
pw	70%	50%	30%	50%	30%	10%	50%	30%	10%
RCR 0	119	119	119	116	116	116	111	111	111
1	109	104	100	102	98	95	98	95	92
2	99	91	84	89	83	78	86	80	76
3	90	80	72	78	71	65	75	69	64
4	83	71	62	70	61	55	67	60	54
5	76	63	54	62	54	48	60	53	47
6	70	57	48	56	48	42	54	47	41
7	65	52	43	51	43	37	49	42	36
8	61	47	39	46	38	33	45	38	33
9	57	43	35	43	35	29	42	34	29
10	53	40	32	39	32	27	38	31	27

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixture
0° - 30°	1152	28.0	28.0
0° - 40°	1875	45.5	45.5
0° - 60°	3294	80.0	80.0
0° - 90°	4118	100.0	100.0
90° - 120°	0	0.0	0.0
90° - 130°	0	0.0	0.0
90° - 150°	0	0.0	0.0
90° - 180°	0	0.0	0.0
0° - 180°	4118	100.0	100.0

2RTL4 48L LP835, 4,786 delivered lumens, test no. LTL25588P8, tested in accordance to IESNA LM-79.

CP Summary		
	0°	90
0°	1743	1743
5°	1735	1739
15°	1657	1677
25°	1504	1563
35°	1291	1402
45°	1043	1200
55°	778	960
65°	514	663
75°	262	267
85°	51	19
90	0	0

Coefficients of Utilization

pf									
pc	80%			70%			50%		
pw	70%	50%	30%	50%	30%	10%	50%	30%	10%
RCR 0	119	119	119	116	116	116	111	111	111
1	109	104	100	102	98	95	98	95	92
2	99	91	84	89	83	78	86	80	76
3	90	80	72	78	71	65	75	69	64
4	83	71	62	70	61	55	67	60	54
5	76	63	54	62	54	48	60	53	47
6	70	57	48	56	48	42	54	47	41
7	65	52	43	51	43	37	49	42	36
8	61	47	39	46	38	33	45	38	33
9	57	43	35	43	35	29	42	34	29
10	53	40	32	39	32	27	38	31	27

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixture
0° - 30°	1339	28.0	28.0
0° - 40°	2179	45.5	45.5
0° - 60°	3828	80.0	80.0
0° - 90°	4786	100.0	100.0
90° - 120°	0	0.0	0.0
90° - 130°	0	0.0	0.0
90° - 150°	0	0.0	0.0
90° - 180°	0	0.0	0.0
0° - 180°	4786	100.0	100.0

nLight® Control Accessories:
Order as separate catalog number. Visit www.sensorswitch.com/nLight for complete listing of nLight controls.

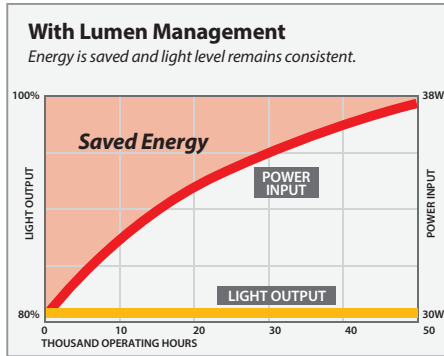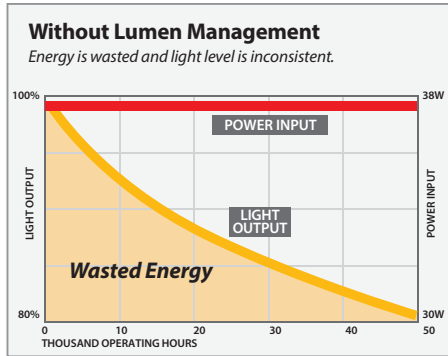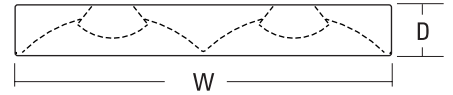| WallPod stations	Model number	Occupancy sensors	Model number
On/Off	nPODM [color]	Small motion 360°, ceiling (PIR / dual tech)	nCM 9 / nCM PDT 9
On/Off & Raise/Lower	nPODM DX [color]	Large motion 360°, ceiling (PIR / dual tech)	nCM 10 / nCM PDT 10
Graphic Touchscreen	nPOD GFX	Wall switch with raise/lower	nWSXPDTLVDX
Photocell controls	**Model number**	**Cat-5 cable bundles (plenum rated)**	**Model number**
On/Off & Dimming	nCM ADCX	10', 15 pieces per bundle	CAT5 10FT
		30', 15 pieces per bundle	CAT5 30FT

RTL with Air Handling

LITHONIA LIGHTING®
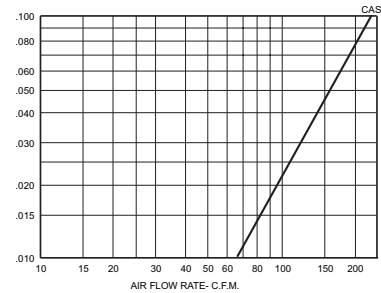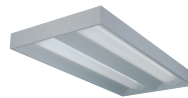
Constant Lumen Management

Enabled by the embedded nLight control, the RTL actively tracks its run-time and manages its light source such that constant lumen output is maintained over the system life. Referred to as lumen management, this feature eliminates the energy waste created by the traditional practice of over-lighting.

Without Lumen Management
Energy is wasted and light level is inconsistent.

POWER INPUT

LIGHT OUTPUT

Wasted Energy

THOUSAND OPERATING HOURS

With Lumen Management
Energy is saved and light level remains consistent.

Saved Energy

POWER INPUT

LIGHT OUTPUT

THOUSAND OPERATING HOURS

Dimensions

All dimensions are inches (centimeters) unless otherwise specified.

Specifications
Length: 48 (121.9)

Width: 24 (61.0)

Depth: 3-1/8 (7.9)